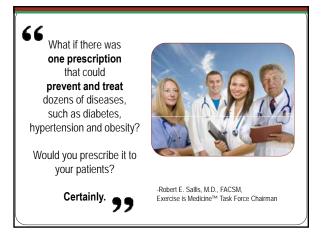
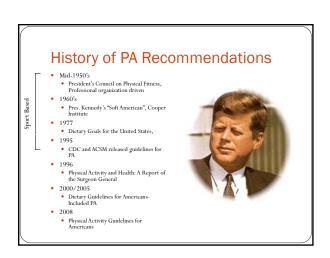
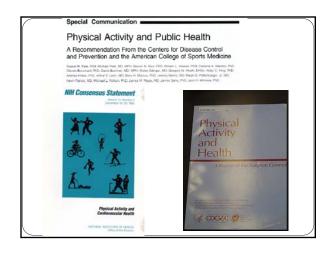


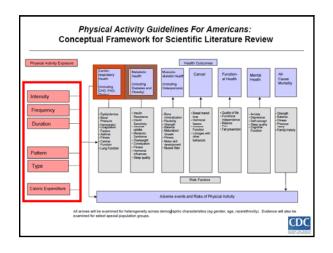
Objectives:

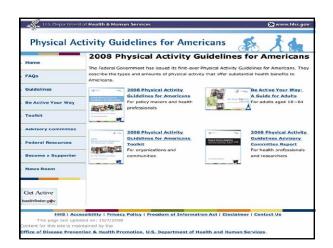
- Participants will be able to identify what the physical activity recommendations are for each population group.
- 2. Participants will have been shown how physical activity affects chronic disease acquisition and management.
- Participants will be exposed to resources that can assist in proper physical activity recommendations for their clients/patients.











Guidelines for Children/Adolescents

- 1 hour or more of daily physical activity that is at least moderate intensity,
- · Vigorous physical activity at least 3 days/week
- As part of 1 or more hours of daily physical activity, include muscle-strengthening activities at least 3 days a week.
- As part of 1 or more hours of daily physical activity, include bone-strengthening activities at least 3 days a week.
- It is important to encourage young people to participate in physical activities that are age appropriate, enjoyable, and offer variety.

手带着

Guidelines for Adults

- Minimum levels/week
 - 150 minutes (2 ½ hours) moderate intensity; or
 - 75 minutes (1 hour 15 minutes) vigorous intensity; or
 - A combination of the two
- Muscle strengthening activities involving all major muscle groups should be performed on 2 or more days of the week



Guidelines for Adults

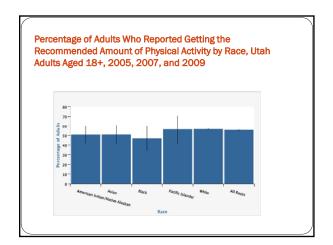


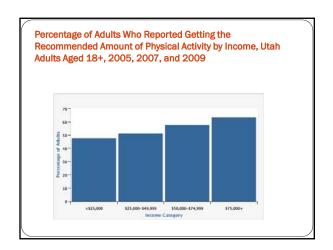
- Additional health benefits occur at:
- 300 minutes (5 hours) moderate intensity; or
- 150 minutes (2 ½ hours) vigorous intensity; or
- A combination
 - 2:1 rule

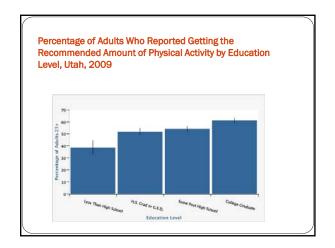
Guidelines for Older Adults

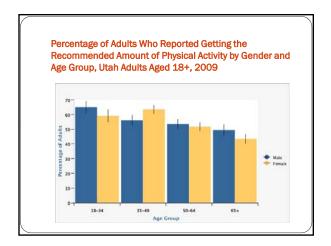
- Follow Adult Guidelines
- If not possible, be as active as abilities or conditions allow
- Emphasize exercises that maintain or improve balance
- Those without chronic conditions or symptoms <u>do</u> <u>not</u> need to consult a health care provider prior to activity

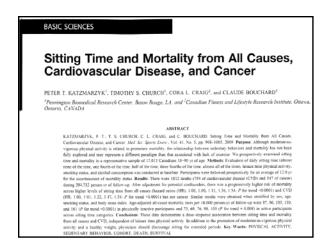




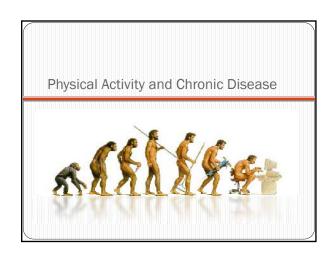








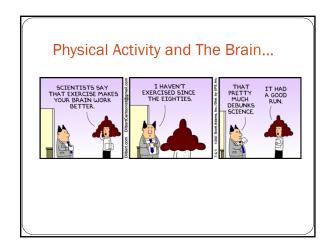


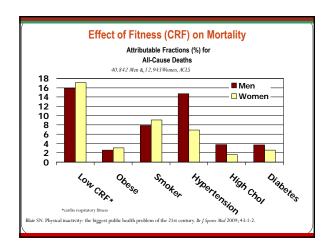


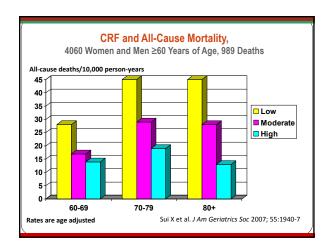
Physical Activity Affects the Entire Body

Regular physical activity at the correct intensity:

- Reduces the risk of heart disease by 40%.
- Lowers the risk of stroke by 27%.
- Reduces the incidence of diabetes by almost 50%.
- · Reduces the incidence of high blood pressure by almost 50%.
- Can reduce mortality and the risk of recurrent breast cancer by almost 50%.
- Can lower the risk of colon cancer by over 60%.
- Can reduce the risk of developing of Alzheimer's disease by onethird.
- Can decrease depression as effectively as Prozac or behavioral therapy.







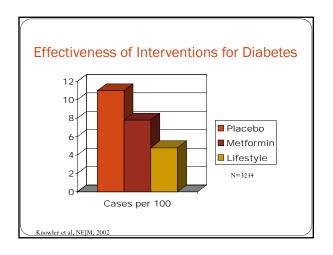
Lifestyle-related Risk Factors and Risk of Future Nursing Home Admissions; 6462 Adults

Risk Factor	45-64 years Hazard Ratio (95% CI)
Physical Inactivity	1.40 (1.05-1.87)
BMI ≥30.0	1.35 (0.96-1.89)
High BP	1.35 (1.06-1.73)
High Cholesterol	1.14 (0.89-1.44)
Diabetes	3.25 (2.04-5.19)

• False

Physical Activity Trivia

- True or False. Breaking up your physical activity into 10 minute segments provides the same benefits as doing it all at the same time.
- True



Activity in Diabetes

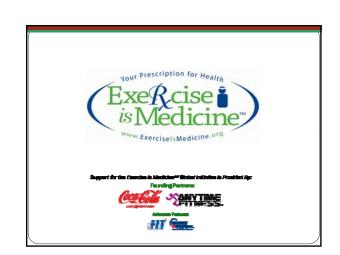
- Autonomic neuropathy: may decrease cardiac responsiveness to exercise, ↑ risk of postural hypotension, impaired thermoregulation, etc
- Persons with diabetes should undergo cardiac evaluation prior to initiation of increased activity program



Activity in Presence of Specific Long Term Complications of Diabetes

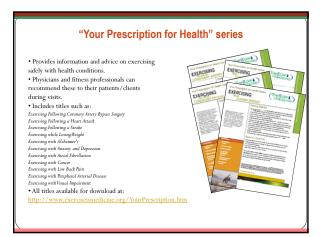
- Retinopathy: vigorous aerobic or resistance exercise may trigger hemorrhages or retinal detachment
- Peripheral neuropathy: lack of pain sensation increases risk of injury and skin breakdown; non weight-bearing exercise may be best

American Diabetes Association Standards of medical care in diabetes. Diabetes Care 30:S4-S36. 200



"If we had a pill that gave all those benefits and was readily available, we would find a way to make sure every patient took it."

Robert E. Sallis, M.D.



Health Care Providers' Action Guide

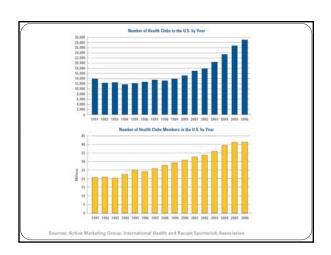
The Health Care Providers' Action Guide provides physicians and other health care providers with a simple, fast, and effective tool for using physical activity, in the right "dosage", as a highly effective prescription for the prevention, treatment, and management of more than 40 of the most common chronic health conditions encountered in primary practice.

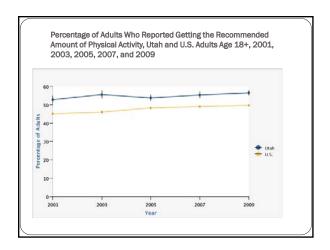
Guide Highlights

- Exercise Prescription and Referral Process document
- \bullet Exercise Readiness and Prescription form
- Starting an Exercise Program patient handout
- •Your Prescription for Health series
- · Physician office flier

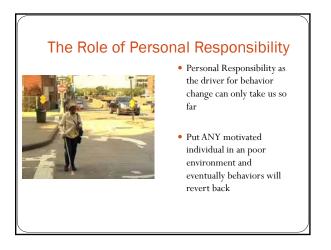


How Do We Increase Physical Activity?





Health Club Memberships This is good money When people pay you to be open and make them feel better And, they don't have to do anything about it, Then, in their minds, problem solved!









- We have out engineered our biology!
- Cognitive dissonance occurs when the factors we have identified as high priority are ignored or counteracted in practice
- And we are GOOD at it

We Are Facing Many Obstacles

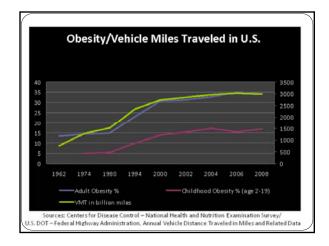


- Public health and health care provider goals can and often do conflict with private industry that has considerably higher budgets
- Our challenge/goal is to level the playing field so our residents/patients are not fighting an uphill battle

Our Approach



Public Health 101: Impact= Reach x Effectiveness x Exposure





Physicians, their Patients, & Exercise

- 47% of primary care physicians include an exercise history as part of their initial examination
- Only 13% of patients report physicians giving advice about exercise
- Physically active physicians are more likely to discuss exercise with their patients
- Nearly two-thirds of patients (65%) would be more interested in exercising to stay healthy if advised by their doctor and given additional resources.

65%

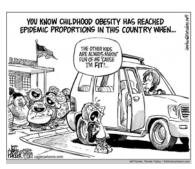
Eakin, Am J Prev Med, 2005 Abramson, Clin J Sport Med, 2000 Walsh, Am J Prev Med, 1999 ACSM Survey

Train Up A Child...

- 25% of obese preschoolers become obese
- 80% of obese 14 year-olds remain obese
- 70% of obese children who lose weight will maintain that loss as adults
- BMI at 18 years stronger predictor of DM2 than at ANY other age

Allen, J Pediatr, 2007 Flegal, Physiol Behav, 2005

Changing The Culture



Those who think they have not time for bodily exercise will sooner or later have to find time for illness.

Edward Stanley, Earl of Derby (1826-93), British statesman.

Brett McIff, PhD 801-538-9362 Bmciff@utah.gov

